B 2320-1

Columbian Chemicals Company

September 25, 1981

Attached are charts and tables covering consumption of carbon black and dry rubber hydrocarbon during the second quarter and the first half of 1981.

CARBON BLACK

Although 14% below the first quarter, shipments of 297 thousand metric tons represented an increase of 18% over the dismal second quarter of 1980.

First half shipments totaled 643 MMT, increasing 6% over the same period of 1980. Domestic shipments rose 9% to 610 MMT; exports decreased 30% to 33 MMT. N-500 and N-600 increased 16%, N-100, 10% and N-300, 8%. N-200 and N-700 eased 7% and 0.4% respectively.

Plant inventory of furnace black increased more than 40% to 101 MMT during the quarter, a .97 month supply, varying from around 3½ weeks in N-500 and N-600, four weeks in N-300, to more than five weeks in N-100, N-200 and N-700.

U.S.A. DRY RUBBER HYDROCARBON
(Excluding Reclaim)

U.S.A. dry rubber hydrocarbon consumption decreased 8% from the first quarter but increased 19% over the second quarter a year ago to 589 thousand metric tons. All polymers exceeded the second quarter of 1980 except Polyisoprene which was off 10%. The increases ranged from 4% in Polychloroprene to 39% in EPDM.

First half consumption of 1,226 MMT rose 6% over the same period of 1980. Six polymers increased: Butyl 4%, SBR and Natural 5%, Nitrile 7%, Polybutadiene 12% and EPDM 17%. Polyisoprene and Polychloroprene were off 15% and 3% respectively.

The first half synthetic ratio remained unchanged at 75.5%. The carbon-rubber ratio rose from 48.1 phr a year ago to 49.8 parts per hundred rubber.

SBR black rubber production in the first six months decreased 5% from the year before to 170 MMT, with oil loading reverting from 40.3% to 38.3%. Net rubber into black rubber was down from 23.5% to 22.3% of dry SBR output, and carbon black in the black rubber, from 59 to 56 MMT.

Very truly yours,

E. L. Bosworth

E. I. Bosworth
Manager, Marketing

3200 West Market Street Box 5373 Akron, Ohio 44313 (216) 867-5800

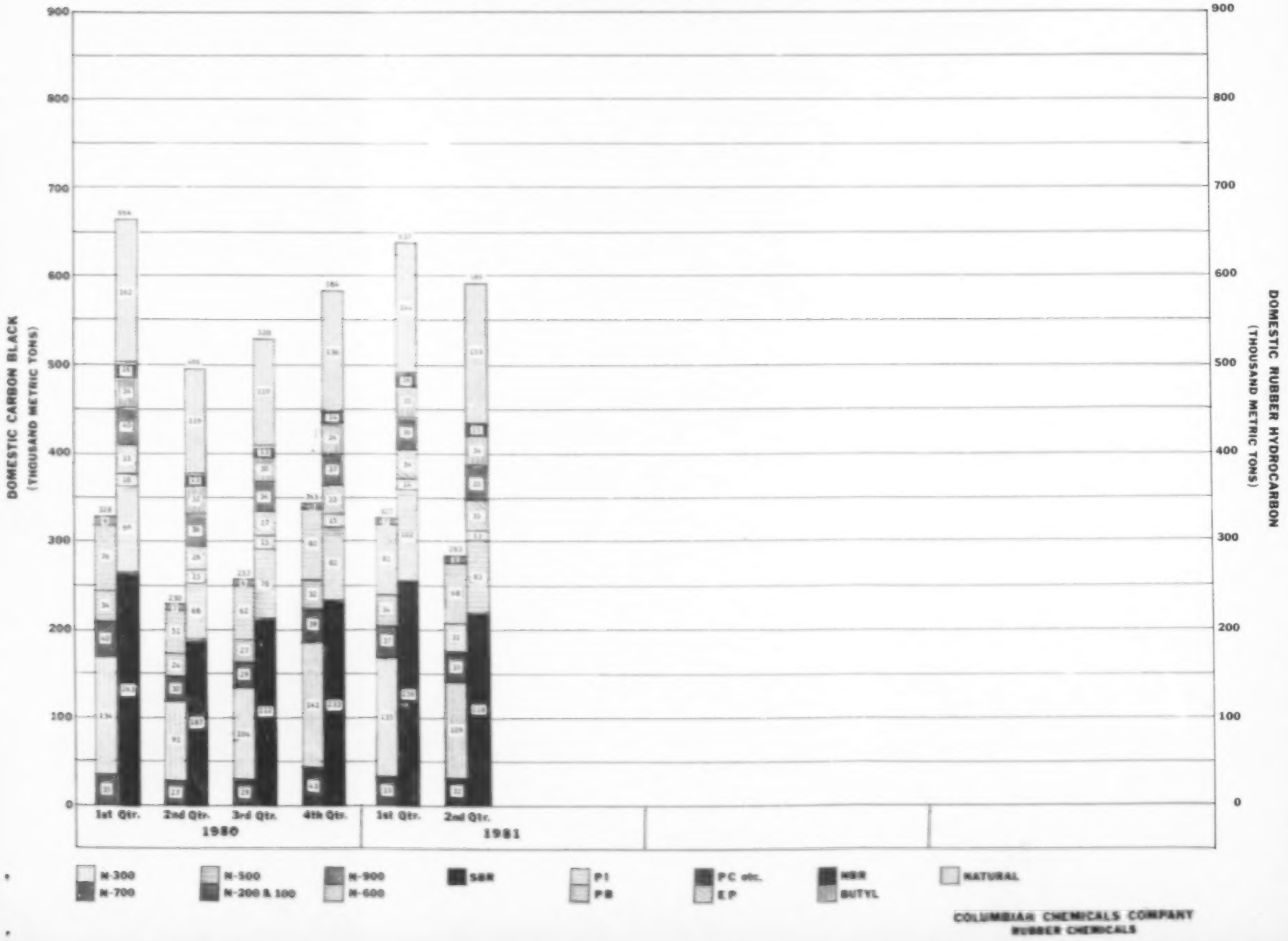
I. CARBON BLACK INDUSTRY IN THE U.S.A.
(Metric Tons)

		1981		Percentage Change	
		2nd Qtr.	1st Half	2nd Qtr. '81 vs. 2nd Qtr. '80	1st Half '81 vs. 1st Half '80
SAF (N-100)	Prod.	5,733	10,814	+ 3.0%	+ 4.1%
	Ship	5,311	10,490	+18.4%	+10.1%
ISAF (N-200)	Prod.	35,831	71,524	- 2.8%	- 8.1%
	Ship.	32,603	69,204	+ 2.7%	- 6.5%
HAF (N-300)	Prod.	126,293	265,708	+16.9%	+ 8.4%
	Ship.	114,953	257,318	+16.7%	+ 8.2%
FEF (N-500)	Prod.	34,281	70,411	+17.7%	+21.0%
	Ship.	31,915	68,395	+30.9%	+15.7%
GPF (N-600)	Prod.	74,912	157,916	+22.7%	+16.9%
	Ship.	68,835	151,797	+32.4%	+16.5%
SPF (N-700)	Prod.	37,222	69,662	+10.9%	+ 2.3%
	Ship.	32,355	65,950	+16.6%	- 0.4%
Furnace	Prod.	314,272	646,035	+14.6%	+ 8.6%
	Ship.	285,972	623,154	+19.7%	+ 8.0%
Thermal (N-900)	Prod.	10,730	22,921	-18.0%	-14.5%
	Ship.	11,315	20,195	-17.2%	-28.9%
Total	Prod.	325,002	668,956	+13.1%	+ 7.6%
	Ship.	297,287	643,349	+17.7%	+ 6.3%
Domestic Shipments (Included Above)		282,817	610,168	+22.9%	+ 9.3%
Domestic Share		95.1%	94.8%		

II. SBR BLACK RUBBER PRODUCTION
(Metric Tons)

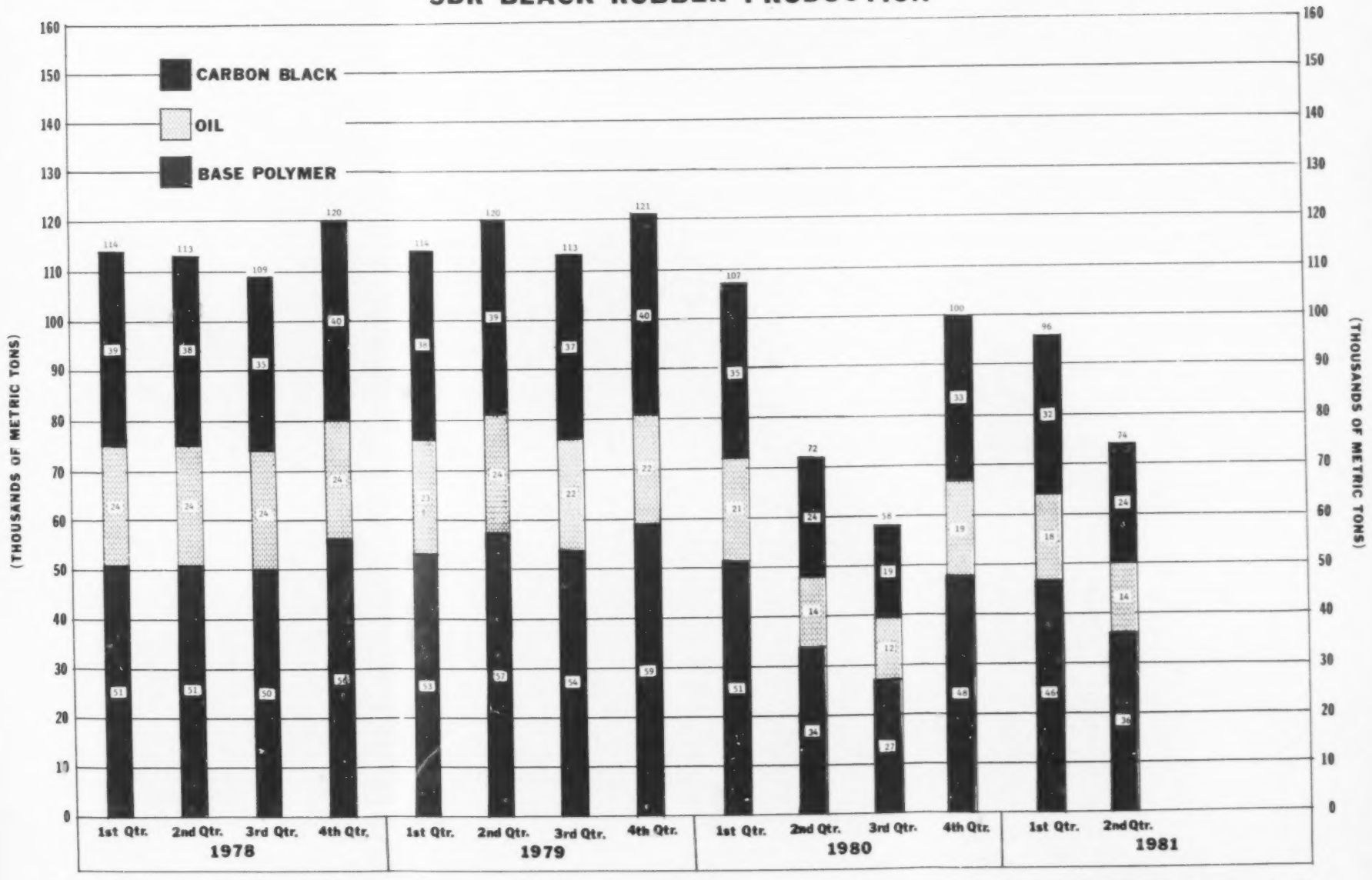
	1981		Percentage Change	
	2nd Qtr.	1st Half	2nd Qtr. '81 vs. 2nd Qtr. '80	1st Half '81 vs. 1st Half '80
Net Polymer (SBR)	36,318	82,626	+ 5.9%	- 3.4%
Oil	13,534	21,656	- 0.6%	- 8.1%
Oil % of Net Polymer	37.3%	38.3%		
Net Rubber	49,852	114,282	+ 3.9%	- 4.8%
Net Rubber % of Dry SBR	21.4%	22.3%		
Carbon Black	24,628	56,052	+ 3.9%	- 4.9%
Total SBR Black Rubber	74,480	170,334	+ 3.9%	- 4.8%

U.S.A. DRY RUBBER HYDROCARBON & CARBON BLACK CONSUMPTION



COLUMBIAN CHEMICALS COMPANY
RUBBER CHEMICALS

SBR BLACK RUBBER PRODUCTION



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Columbian Chemicals Company

February 18, 1982

Attached are charts and tables concerning U.S.A. consumption of carbon black and dry rubber hydrocarbons through the first three quarters of 1981.

CARBON BLACK
(Excluding Thermal)

Although 5% below the second quarter, carbon black production rose 31% over the third quarter of 1980 to 298 thousand metric tons. Year-to-date output of 944 MMT exceeded 1980 by 15%.

Shipments of 316 MMT during the third quarter increased 11% over the second quarter and 21% over the year ago period. First nine month shipments totaled 939 MMT, a 12% increase over 1980, with domestic up 14% to 903 MMT and exports down 21% to 36 MMT. All grades improved: N-100 by 21%, N-500 and N-600, 20%, N-300, 11%, N-700, 3% and N-200, 1%.

Plant inventory declined 19% during the quarter to 82 MMT, a 3.4 week supply, varying from 2 weeks in N-500 to over 3 weeks in N-300 and N-600, 4 weeks in N-100 and N-200 and 5 weeks in N-700.

DRY RUBBER HYDROCARBONS
(Excluding Reclaim)

Totaling 587 thousand metric tons, dry rubber hydrocarbon consumption in the U.S.A. declined 1% from the second quarter but increased 11% over the third quarter of 1980. Year-to-date consumption of 1,807 MMT increased 7% over the first three quarters of 1980. Five polymers were up: SBR and Polybutadiene 7%, Nitrile 9%, Natural 12% and Ethylene-propylene 19%. Polyisoprene, Polychloroprene and Butyl decreased 19%, 4% and 1% in that order.

The synthetic ratio was down from 76.6% the year before to 74.5% during the recent quarter, and from 75.8% to 74.9% year-to-date. On the other hand, carbon-rubber ratio rose from 47.5 to 52.5 phr during the third quarter, and from 46.9 to an even 50 parts per hundred rubber for the nine months.

SBR black rubber production during the quarter increased 23% from 1980 to 71 MMT. Year-to-date output of 242 MMT was up 2%, with oil loading reverting from 40.9% to 38.4%. Black rubber share decreased from 22.9% to 22.1% of dry SBR output and the carbon black in black rubber increased 2% to 80 thousand tons.

Very truly yours,

Edward I. Bosworth

E. I. Bosworth
Manager, Marketing

3200 West Market Street Box 5373 Akron, Ohio 44313 (216) 867-5800

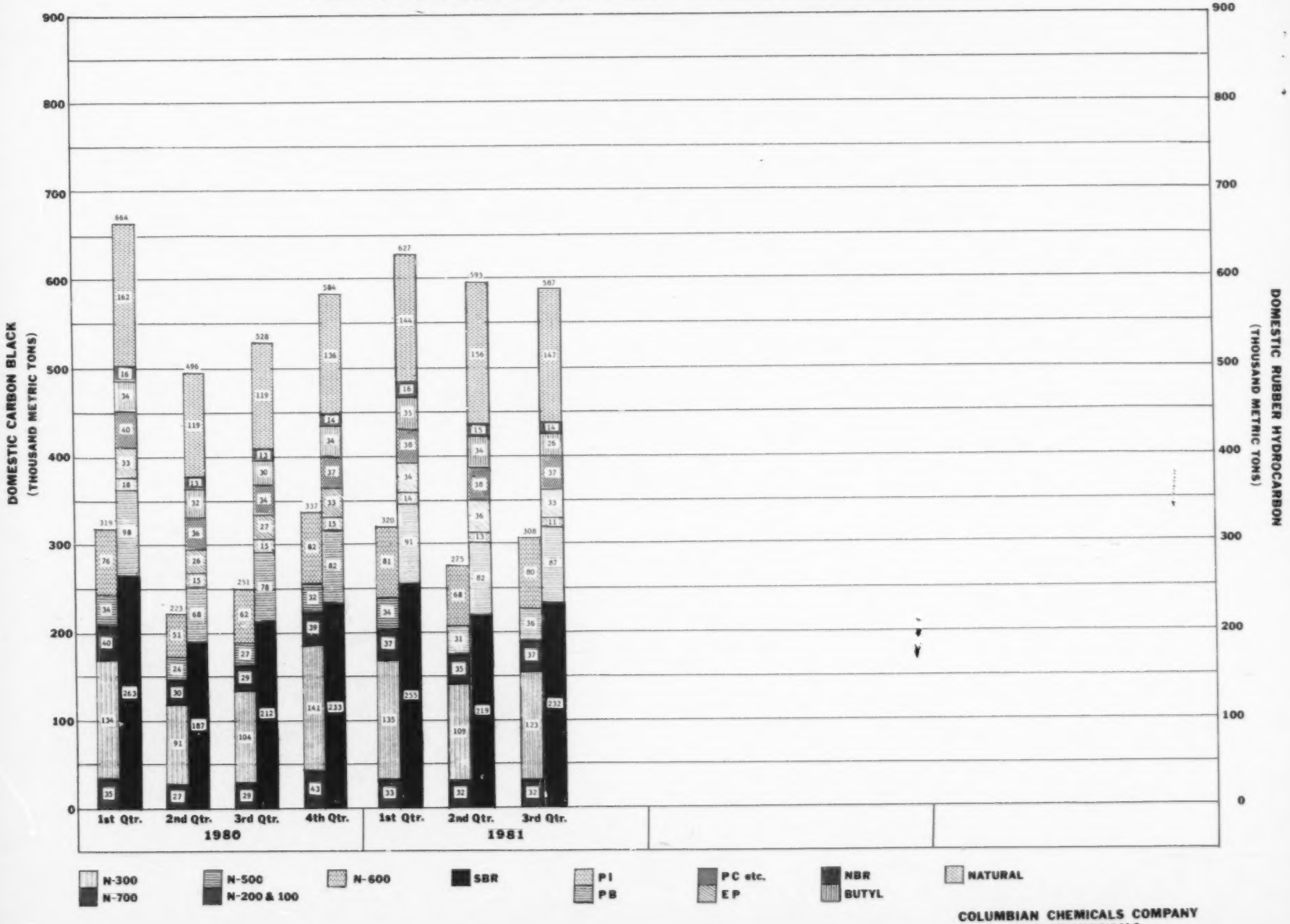
I. CARBON BLACK INDUSTRY IN THE U.S.A.
(Excluding Thermal)
(Metric Tons)

		1981		Percentage Change	
		3rd Qtr.	9 Months	3rd Qtr '81 vs. 3rd Qtr '80	9 Months '81 vs. 9 Months '80
SAF (N-100)	Prod.	4,717	15,532	+46.9%	+14.2%
	Ship.	5,350	15,840	+48.9%	+20.7%
ISAF (N-200)	Prod.	31,470	102,993	+21.3%	-0.7%
	Ship.	34,426	103,630	+21.8%	+1.3%
HAF (N-300)	Prod.	118,275	383,982	+17.4%	+11.0%
	Ship.	126,089	383,407	+15.6%	+10.5%
FEF (N-500)	Prod.	33,834	104,246	+49.0%	+28.9%
	Ship.	36,639	105,034	+28.2%	+19.7%
GPF (N-600)	Prod.	77,855	235,771	+49.0%	+25.9%
	Ship.	80,774	232,571	+27.7%	+20.1%
SRF (N-700)	Prod.	31,454	101,117	+38.9%	+11.4%
	Ship.	32,686	98,636	+11.5%	+3.3%
Furnace	Prod.	297,605	943,641	+30.8%	+14.8%
	Ship.	315,964	939,118	+20.6%	+11.9%
Domestic Shipments (Included Above)		308,073	902,683	+22.8%	+13.4%
Domestic Share		97.5%	96.1%		

II. SBR BLACK RUBBER PRODUCTION
(Metric Tons)

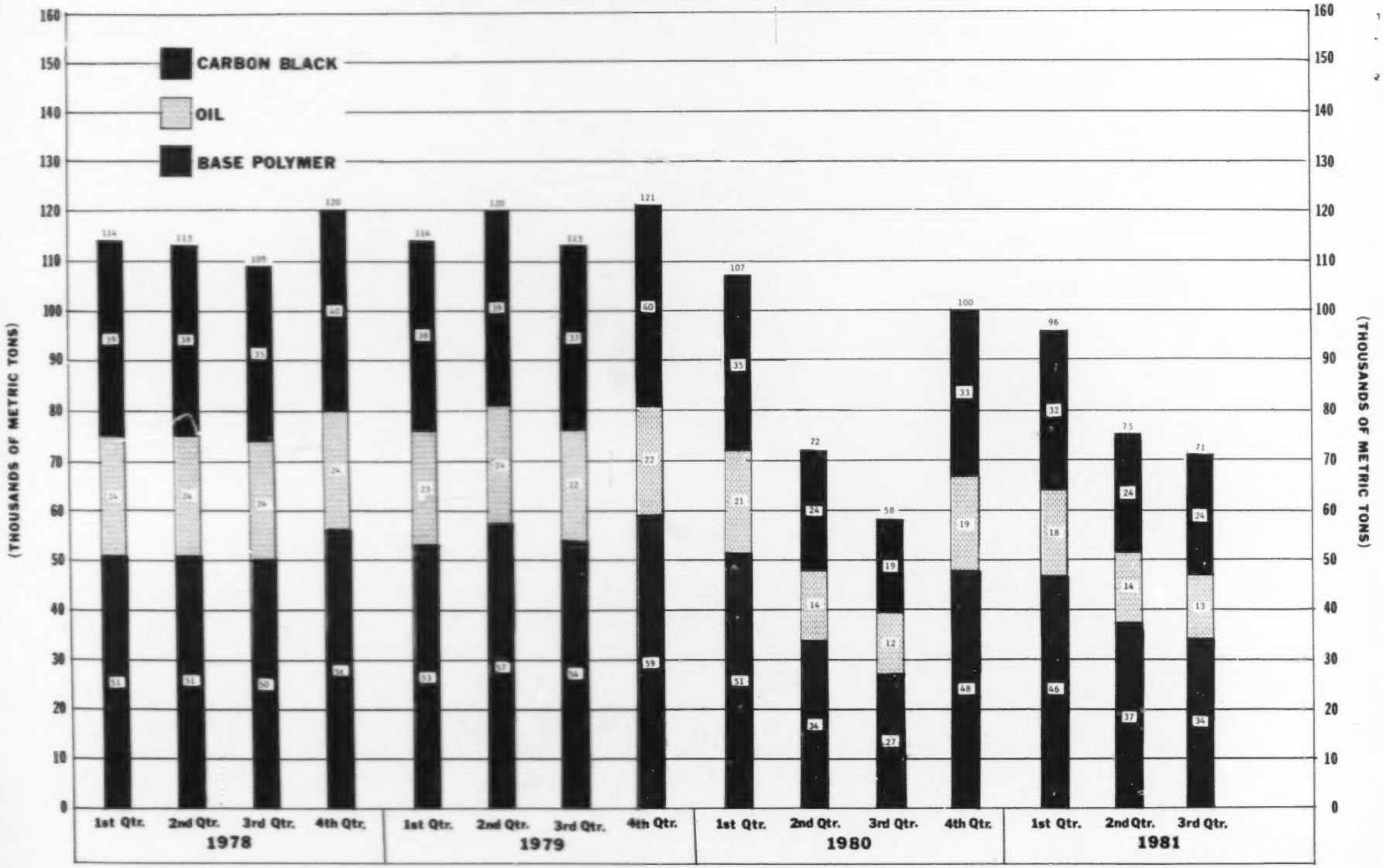
	1981		Percentage Change	
	3rd Qtr.	9 Months	3rd Qtr '81 vs. 3rd Qtr '80	9 Months '81 vs. 9 Months '80
Net Polymer (SBR)	34,327	116,953	+27.2%	+3.9%
Oil	13,285	44,941	+14.2%	-2.5%
Oil % of Net Polymer	38.7%	38.4%		
Net Rubber	47,612	161,894	+23.3%	+2.1%
Net Rubber % of Dry SBR	21.6%	22.1%		
Carbon Black	23,763	79,815	+22.8%	+2.0%
Total SBR Black Rubber	71,375	241,709	+23.1%	+2.0%

U.S.A. DRY RUBBER HYDROCARBON & CARBON BLACK CONSUMPTION



COLUMBIAN CHEMICALS COMPANY
RUBBER CHEMICALS

SBR BLACK RUBBER PRODUCTION


CARBON BLACK
OIL
BASE POLYMER
(THOUSANDS OF METRIC TONS)
(THOUSANDS OF METRIC TONS)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
1st Qtr.
2nd Qtr.
3rd Qtr.
4th Qtr.
1978
1979
1980
1981
114
113
109
120
114
120
113
121
107
72
58
100
96
75
71
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B 2320-1 4/12/82

Columbian Chemicals Company

April 2, 1982

Attached are charts and tables covering U.S.A. carbon black and dry rubber hydrocarbon consumption during the year of 1981.

CARBON BLACK
(Excluding Thermal)

In 1981, carbon black production increased 7% and shipments, 2%, from 1980 to 1.2 million metric tons each. Shipments practically equalled the 1975 level. New records were set in production as well as shipments in the N-100 series, each surpassing the previous peak in 1972 by 12%. On the minus side, demand in N-200 was the lowest in four years and N-700, the lowest in six years.

As fourth quarter production of 295 MMT was down 12% from the comparable period of 1980, shipments of 272 MMT dropped 22%. Thus, inventory increased 37% to 105 MMT, a one month supply, varying from three weeks in N-600 to four weeks in N-300 and N-500, five weeks in N-200 and seven weeks in N-100 and N-700.

DRY RUBBER HYDROCARBONS
(Excluding Reclaim)

Totaling 2,366 thousand metric tons, dry rubber hydrocarbon consumption in the U.S.A. recovered 4% from the dismal 1980. EPDM increased 14%, Natural, 9%, Polybutadiene and Nitrile, 6% and dry-SBR, 2%. Butyl remained practically unchanged. Polyisoprene and Polychloroprene decreased 18% and 5% respectively.

Both rubber ratios were lower than 1980: the synthetic share, from 76.0% to 74.9% and carbon black, from 49.7 to 49.2 parts per hundred rubber.

SBR black rubber production decreased 9% to 307 MMT, a twenty-year low. Oil in black rubber was off 13% to 57 MMT, an oil loading of 38.4%. Both the 21.9% of net rubber share of dry SBR and the 101 MMT of carbon black used in black rubber were in their lowest level since the early sixties.

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Here is how 1981 compared with the compounded annual growth rates of the past decade and the past five years.

Annual Growth Rates

	1971-81	1976-81	1980-81
Furnace Shipments (Including Exports)	+0.1%	(1.6%)	+2.0%
Domestic Carbons	(0.1%)	(1.9%)	+3.0%
Dry Rubber Hydrocarbon	(0.6%)	(2.4%)	+4.1%
SBR Black Rubber Production	(4.9%)	(8.3%)	(8.9%)
Oil into Black Rubber	(5.4%)	(9.8%)	(12.7%)
GNP (in 1972 dollars)	+3.0%	+3.0%	+2.0%
Car Production	(1.4%)	(5.1%)	(1.9%)
Truck Production	(2.1%)	(10.9%)	+2.7%

Very truly yours,

Edward I. Bosworth

Edward I. Bosworth
Manager, Marketing

I. U.S.A. CARBON BLACK INDUSTRY DATA

(Metric Tons)

		1981		Percentage Change	
		4th Qtr.	Year	4th Qtr. '81 vs. 4th Qtr. '80	Year '81 vs. Year '80
N-100 (SAF)	Prod.	5,956	21,488*	+13.3%	+14.0%
	Ship.	4,906	20,746*	(7.8%)	+12.5%
N-200 (ISAF)	Prod.	35,031	138,024	+3.7%	+0.3%
	Ship.	32,097	135,728	(12.9%)	(2.5%)
N-300 (HAF)	Prod.	119,925	503,907	(12.7%)	+4.3%
	Ship.	112,227	495,634	(22.7%)	+0.7%
N-500 (FEF)	Prod.	32,266	136,511	(5.1%)	+18.8%
	Ship.	27,911	132,945	(17.0%)	+9.6%
N-600 (GPF)	Prod.	71,763	307,534	(11.6%)	+14.6%
	Ship.	68,138	300,709	(18.7%)	+8.4%
N-700 (SRF)	Prod.	29,578	130,695	(30.6%)	(2.0%)
	Ship.	26,885	125,520	(38.3%)	(9.7%)
Total	Prod.	294,519	1,238,159	(11.8%)	+7.1%
	Ship.	272,164	1,211,282	(21.9%)	+2.0%
Domestic Shipments (Included Above)		260,899	1,163,583	(22.7%)	+3.0%
Domestic Share		95.9%	96.1%		

II. SBR BLACK RUBBER PRODUCTION

(Metric Tons)

	1981		Percentage Change	
	4th Qtr.	Year	4th Qtr. '81 vs. 4th Qtr. '80	Year '81 vs. Year '80
Net Polymer	31,446	148,399	(34.1%)	(7.4%)
Oil	12,097	57,038	(37.2%)	(12.7%)
Oil % of Net Polymer	38.5%	38.4%		
Net Rubber	43,543	205,437	(35.0%)	(8.9%)
Net Rubber % of Dry SBR	21.1%	21.9%		
Carbon Black	21,572	101,387	(34.5%)	(8.9%)
Total SBR Black Rubber	65,115	306,824	(34.8%)	(8.9%)

* - Record Period

III. U.S.A. CARBON RUBBER RATIO DATA

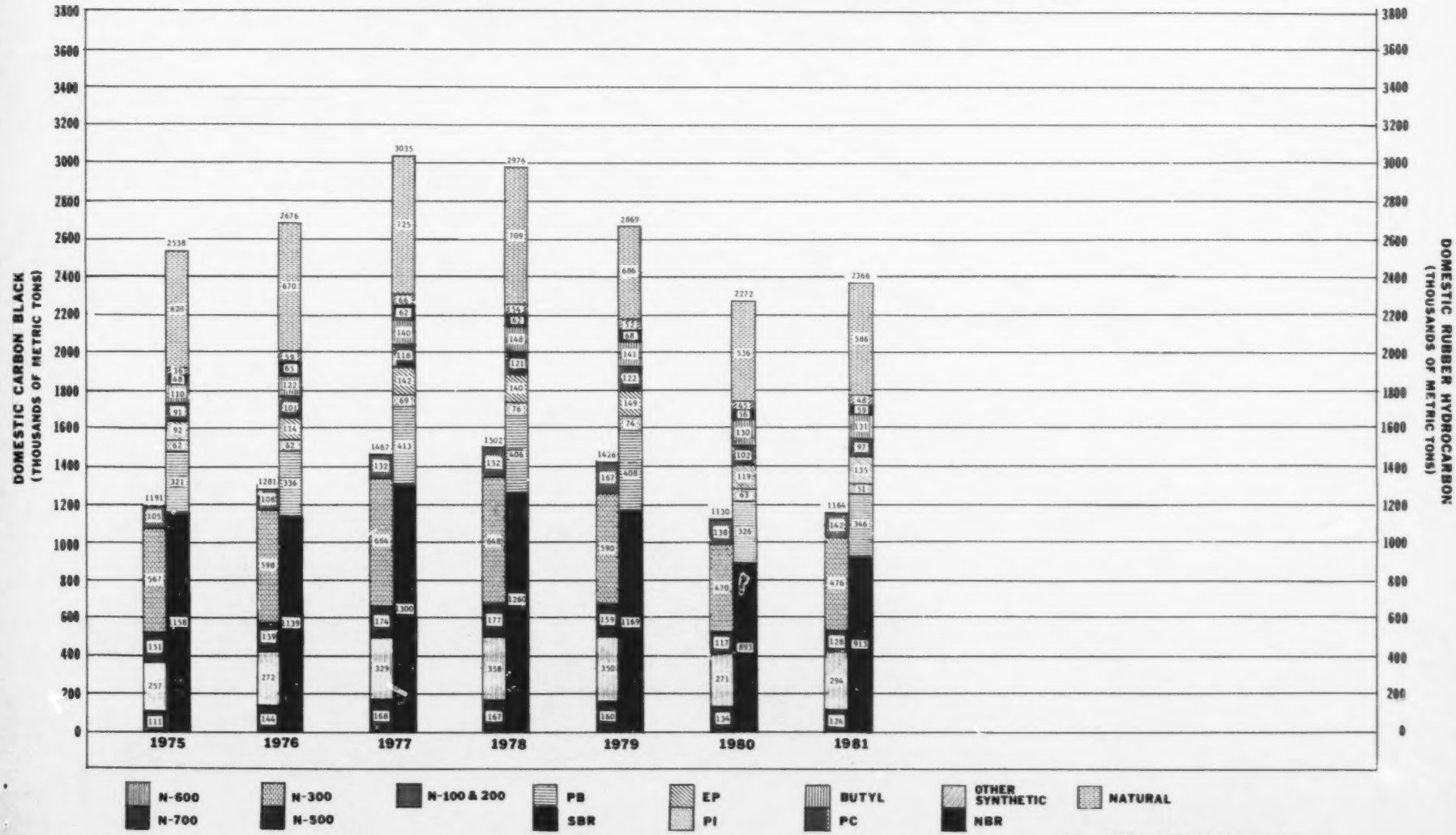
(Thousands of Metric Tons)

	A TOTAL NEW RUBBER CONSUMED	B DRY RUBBER HYDROCARBONS (Excl.Reclaim)	C DRY WGT. LATEX	D LATEX % OF TOTAL NEW RUBBER C/A x 100	E FURNACE CARBON	F CARBON PHR E/B X 100	G SYNTHETIC RATIO
1955	1,554	1,384	170	11.0%	464	33.5	58.5%
6	1,460	1,301	159	10.9%	437	33.6	60.9%
7	1,488	1,322	166	11.1%*	472	35.7	63.2%
8	1,386	1,233	153	11.0%	454	36.8	64.5%
9	1,654	1,472	182	11.0%	552	37.5	65.9%
1960	1,583	1,420	164	10.3%	538	37.9	69.3%
1	1,554	1,395	159	10.2%	546	39.1	72.1%
2	1,746	1,575	171	9.8%	626	39.7	73.1%
3	1,792	1,618	174	9.7%	665	41.1	74.1%
4	1,964	1,774	190	9.7%	754	42.5	75.1%
1965	2,088	1,894	194	9.3%	811	42.8	75.0%
6	2,247	2,062	185	8.2%	896	43.5	75.3%
7	2,151	1,970	181	8.4%	873	44.3	76.9%
8	2,518	2,308	210	8.3%	1,029	44.6	76.5%
9	2,664	2,444	221	8.3%	1,108	45.3	77.2%
1970	2,517	2,313	204	8.1%	1,063	46.0	77.4%
1	2,714	2,506	208	7.6%	1,180	47.1	78.4%*
2	2,979	2,759	220	7.4%	1,317	47.7	78.2%
3	3,129	2,903	227	7.2%	1,401	48.3	77.7%
4	3,075	2,944	164	5.3%	1,329	45.1	76.6%
1975	2,692	2,538	154	5.7%	1,191	46.9	75.1%
6	2,906	2,676	230*	7.9%	1,281	47.9	74.9%
7	3,244*	3,035*	209	6.4%	1,467	48.3	76.0%
8	3,201	2,976	225	7.0%	1,502*	50.5*	76.1%
9	3,080	2,869	210	6.8%	1,426	49.7	76.0%
1980	2,440	2,272	168	6.9%	1,130	49.7	76.0%
1	2,524	2,366	158	6.3%	1,164	49.2	74.9%
1981 vs 1980	+3.4%	+4.1%	(6.0%)	(8.7%)	+3.0%	(1.0%)	(1.4%)

* = Record year.

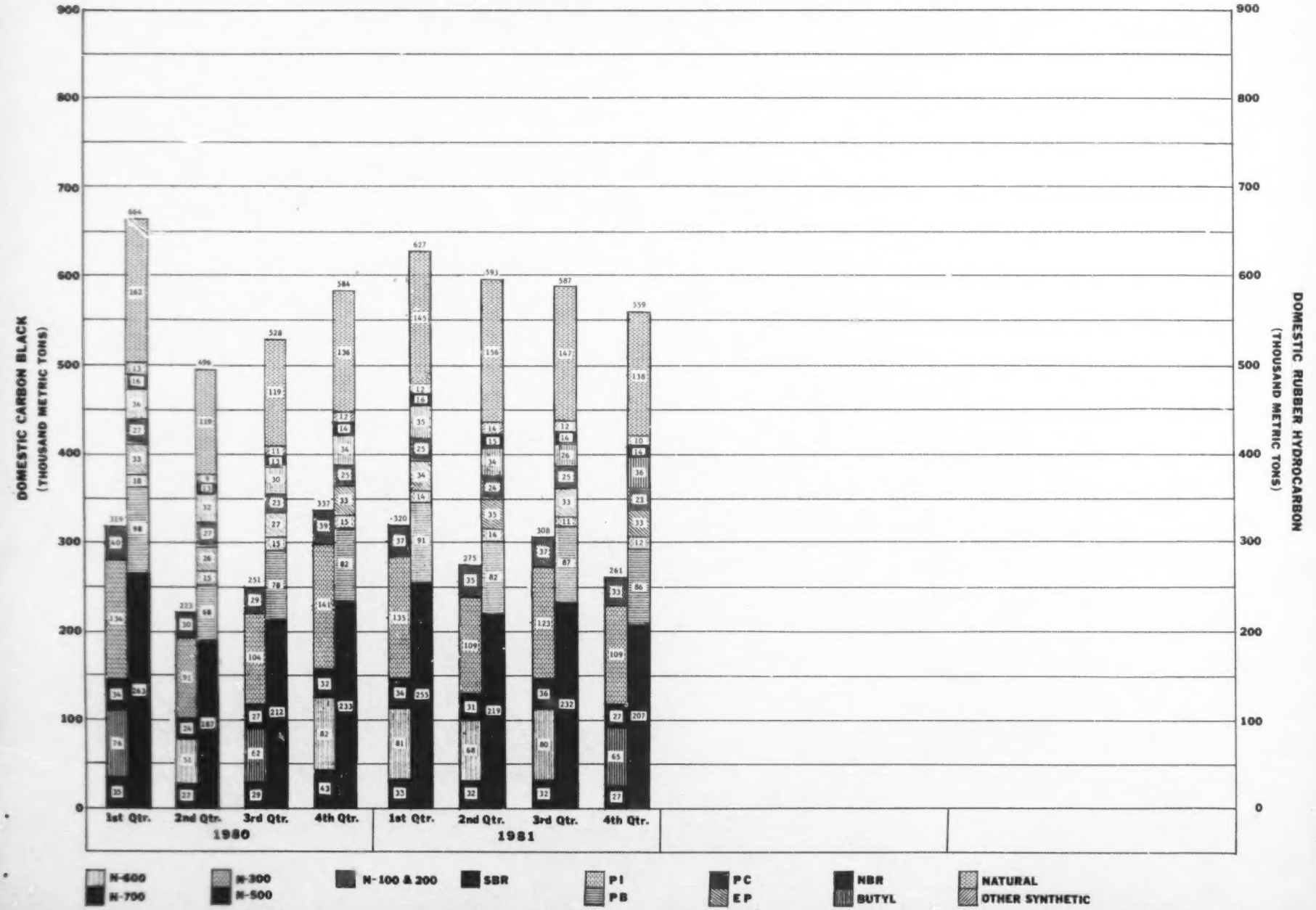
Columbian Chemicals Company
Rubber Chemicals

U.S.A. DRY RUBBER HYDROCARBON & CARBON BLACK CONSUMPTION



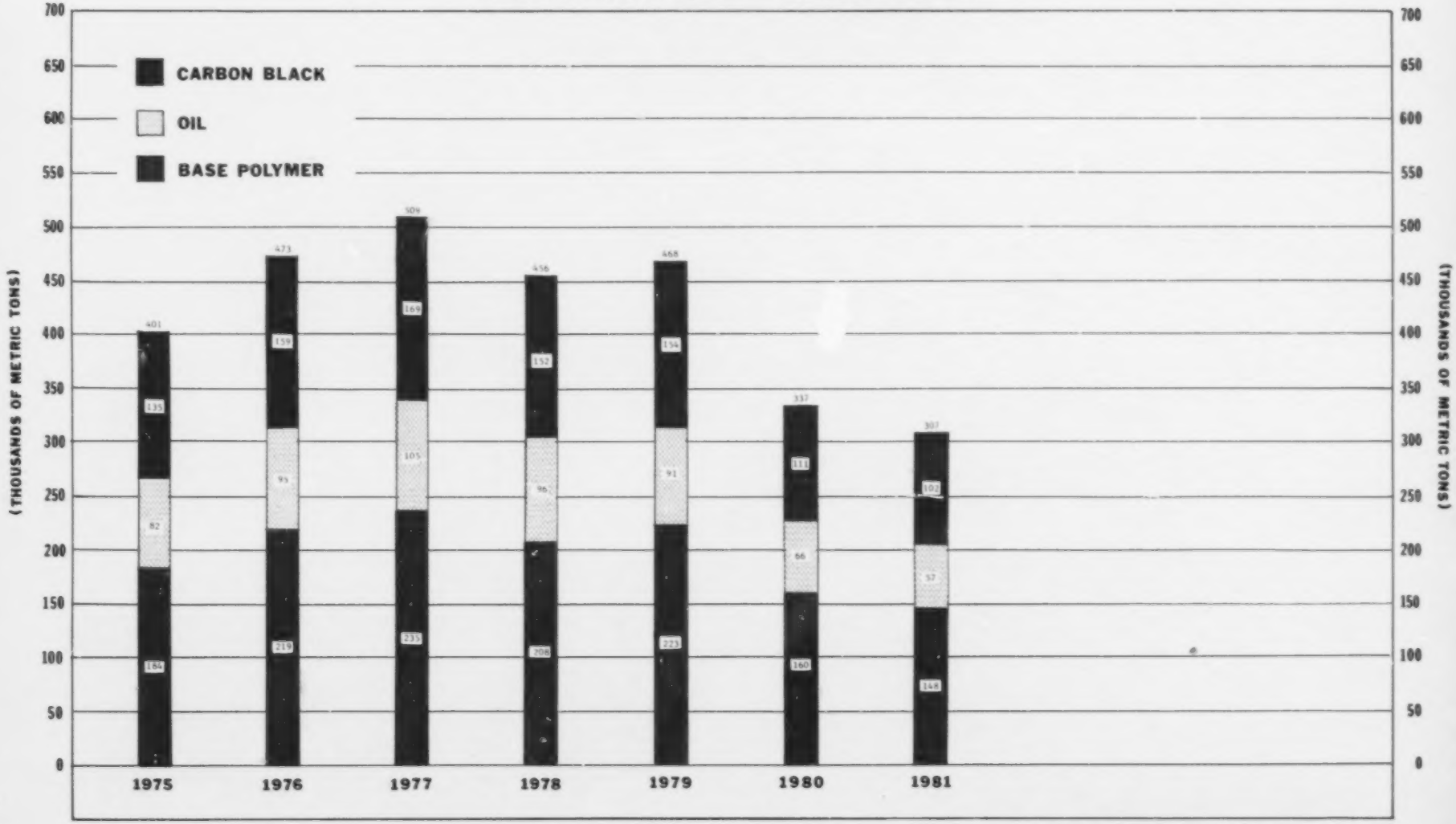
COLUMBIAN CHEMICALS COMPPANY
RUBBER CHEMICALS

U.S.A. DRY RUBBER HYDROCARBON & CARBON BLACK CONSUMPTION



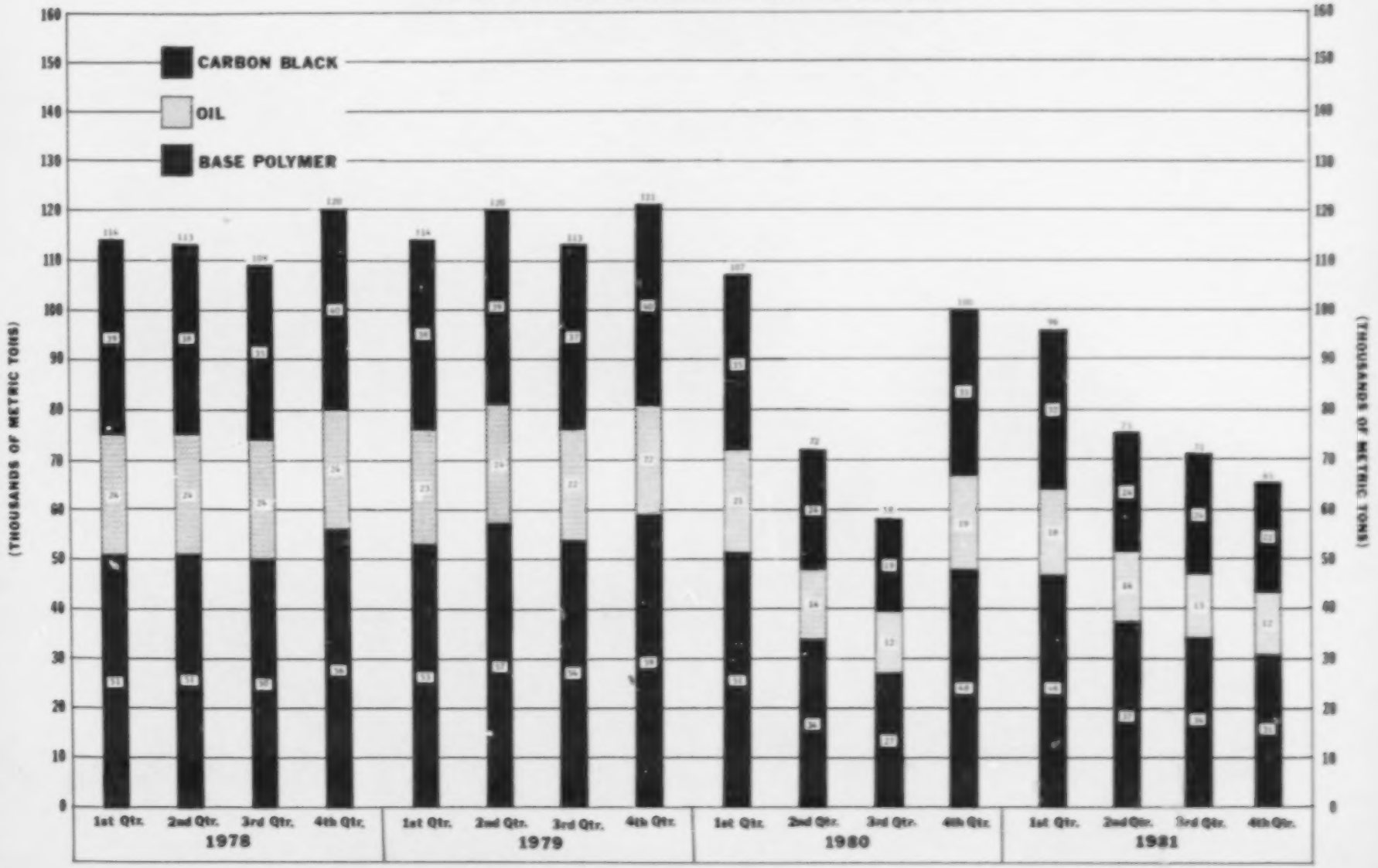
COLUMBIAN CHEMICALS COMPANY
RUBBER CHEMICALS

SBR BLACK RUBBER PRODUCTION

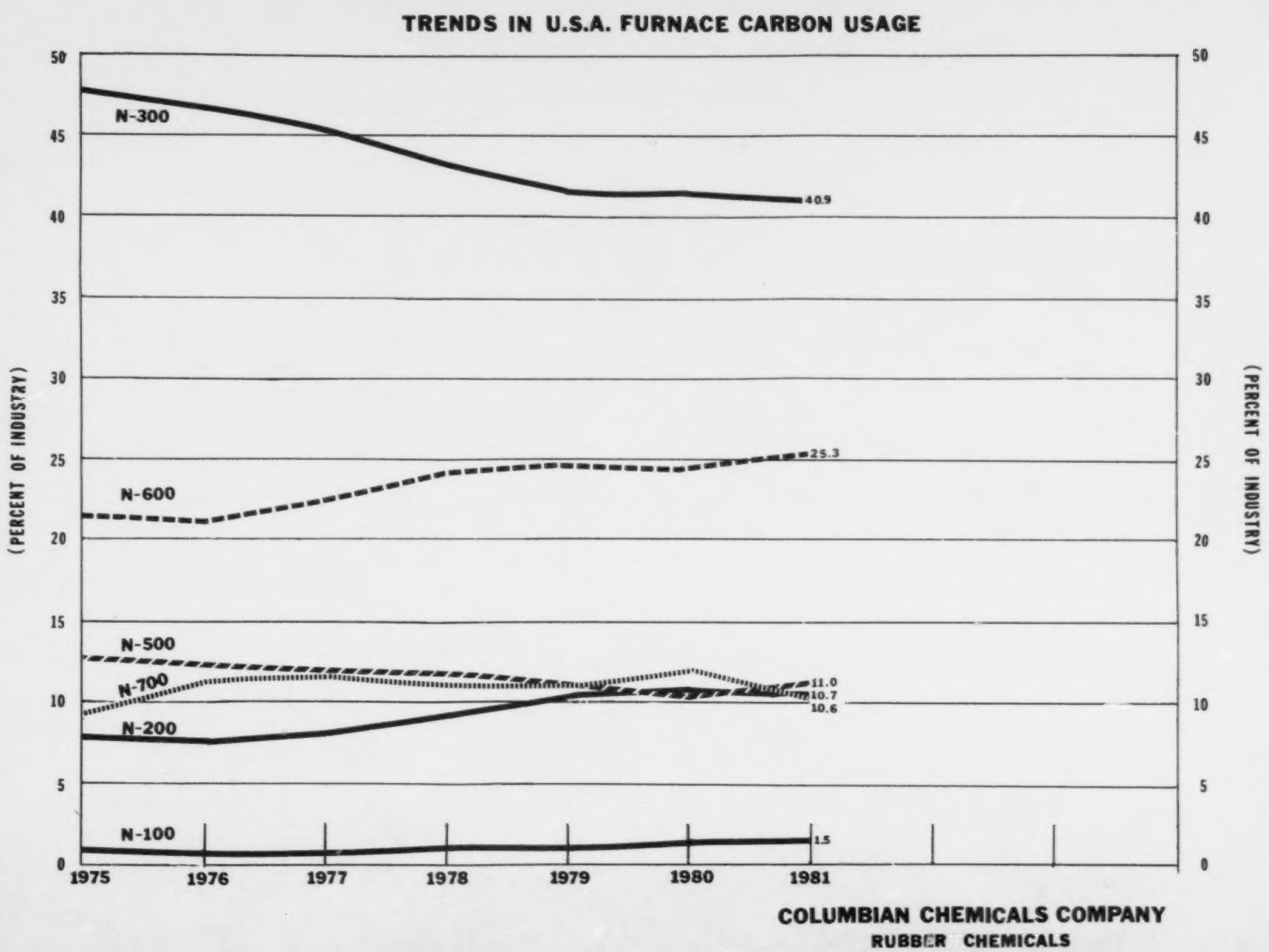


COLUMBIAN CHEMICALS COMPANY
RUBBER CHEMICALS

SBR BLACK RUBBER PRODUCTION



COLUMBIAN CHEMICALS COMPANY
RUBBER CHEMICALS


TRENDS IN U.S.A. FURNACE CARBON USAGE
(PERCENT OF INDUSTRY)
(PERCENT OF INDUSTRY)
50
45
40
35
30
25
20
15
10
5
0
N-300
40.9
N-600
25.3
N-500
N-700
11.0
10.7
10.6
N-200
N-100
1.5
1975
1976
1977
1978
1979
1980
1981
COLUMBIAN CHEMICALS COMPANY
RUBBER CHEMICALS

B2320-1 6/24/82

Columbian Chemicals Company

June 14, 1982

Attached are charts and tables covering U.S.A. carbon black and dry rubber hydrocarbon consumption during the first quarter of 1982.

CARBON BLACK
(Excluding Thermal)

Both carbon black production of 250 thousand metric tons and shipments of 285 MMT decreased 16% from the first quarter of 1981 and both represented the lowest first quarter in seven years. Demand for all grades was down: N-700 descended to the lowest since the second quarter of 1975 and N-600, N-300 and N-500, the lowest in any first quarter since 1975, 1972 and 1963 respectively.

Plant inventory reduced 5% during the quarter to 99 MMT, a one month supply, varying from four weeks in N-300 and N-600 to five weeks in N-200 and N-500, eight weeks in N-700 and nine weeks in N-100.

DRY RUBBER HYDROCARBONS
(Excluding Reclaim)

U.S.A. dry rubber hydrocarbon consumption decreased 12% from the year ago level to 553 thousand metric tons, the lowest in any first quarter since 1967. Except Natural, all polymers were down, varying from 14% in SBR, Polybutadiene and EPDM to 15% in Nitrile, 16% in Polychloroprene and 19% in Polyisoprene.

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SBR black rubber production decreased 26% to 71 MMT. Although 9% over the fourth quarter last year, this was the lowest first quarter in the past twenty years. Oil in black rubber was off 19% to 15 MMT, an oil loading of 44.4%, and the net rubber therein accounted for 21.7% of the dry SBR output. Carbon black used in the black rubber decreased to the second lowest in the past two decades to 23 MMT, exceeding the fourth quarter of 1981 by 7%.

Very truly yours,

Edward I. Bosworth

Edward I. Bosworth
Manager, Marketing

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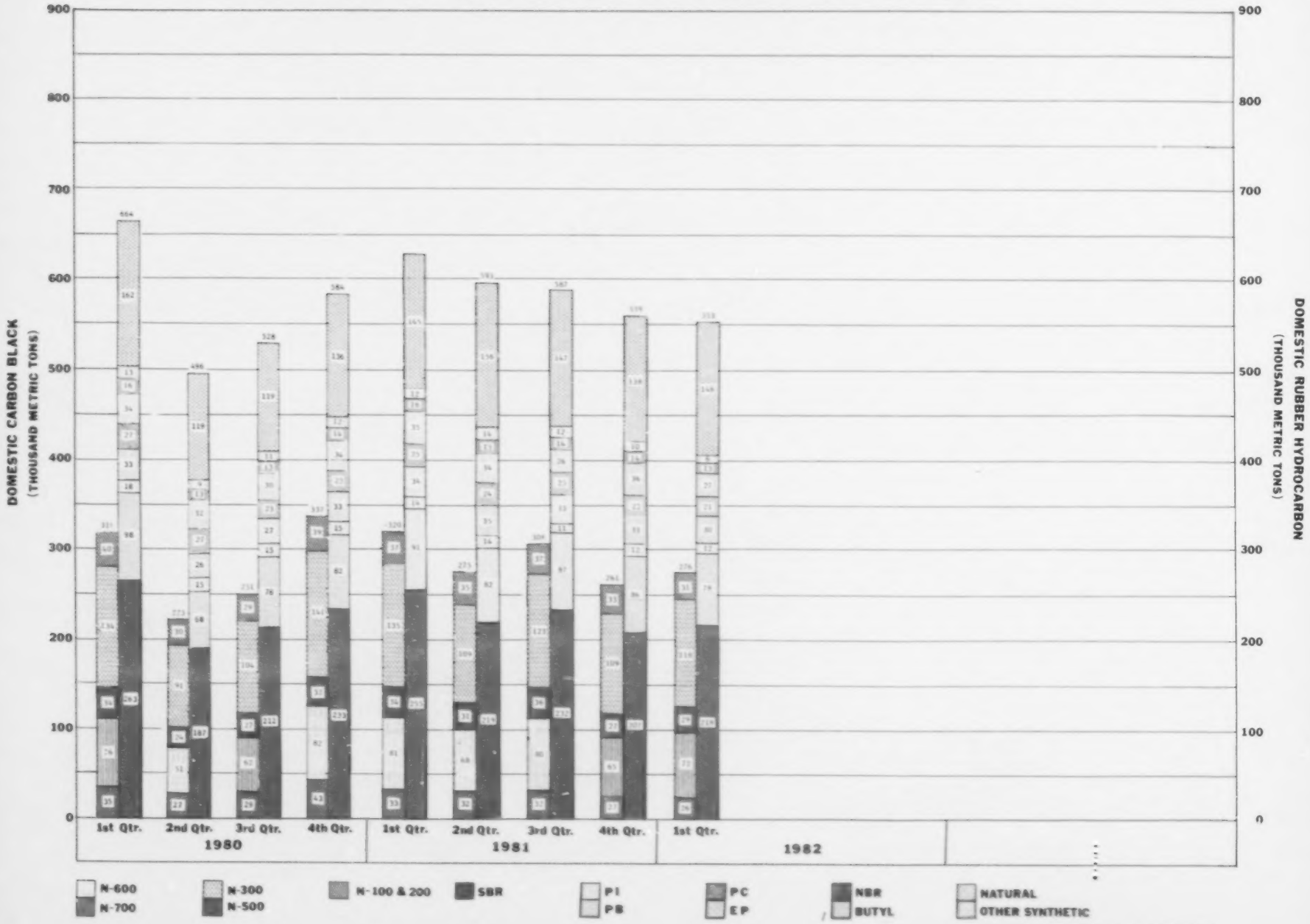
I. CARBON BLACK INDUSTRY IN THE U.S.A.
(Metric Tons)

		1st Qtr. 1982	Percentage Change from 4th Qtr. '81	Percentage Change from 1st Qtr. '81
N-100 (SAF)	Prod.	4,258	-28.5%	-16.2%
	Ship.	4,284	-12.7%	-17.3%
N-200 (ISAF)	Prod.	29,252	-16.5%	-18.0%
	Ship.	30,391	- 5.3%	-17.0%
N-300 (HAF)	Prod.	118,146	- 1.5%	-15.3%
	Ship.	121,299	+ 8.1%	-14.8%
N-500 (FEF)	Prod.	29,238	- 9.4%	-19.1%
	Ship.	29,009	+ 3.9%	-20.5%
N-600 (GPF)	Prod.	72,275	+ 0.7%	-12.9%
	Ship.	73,173	+ 7.4%	-11.8%
N-700 (SRF)	Prod.	26,353	-10.9%	-18.8%
	Ship.	26,501	- 1.4%	-21.1%
Total	Prod.	279,522	- 5.1%	-15.7%
	Ship.	284,657	+ 4.6%	-15.6%
Domestic Shipments (Included Above)		276,195	+ 5.9%	-13.7%
Domestic Share		97.0%		

II. SBR BLACK RUBBER PRODUCTION
(Metric Tons)

	1st Qtr. 1982	Percentage Change from 4th Qtr. '81	Percentage Change from 1st Qtr. '81
Net Polymer	32,957	+ 4.8%	-28.8%
Oil	14,636	+21.0%	-19.2%
Oil % of Net Polymer	44.4%		
Net Rubber	47,593	+ 9.3%	-26.1%
Net Rubber % of Dry SBR	21.7%		
Carbon Black	23,155	+ 7.3%	-26.3%
Total SBR Black Rubber	70,748	+ 8.7%	-26.2%

U.S.A. DRY RUBBER HYDROCARBON & CARBON BLACK CONSUMPTION



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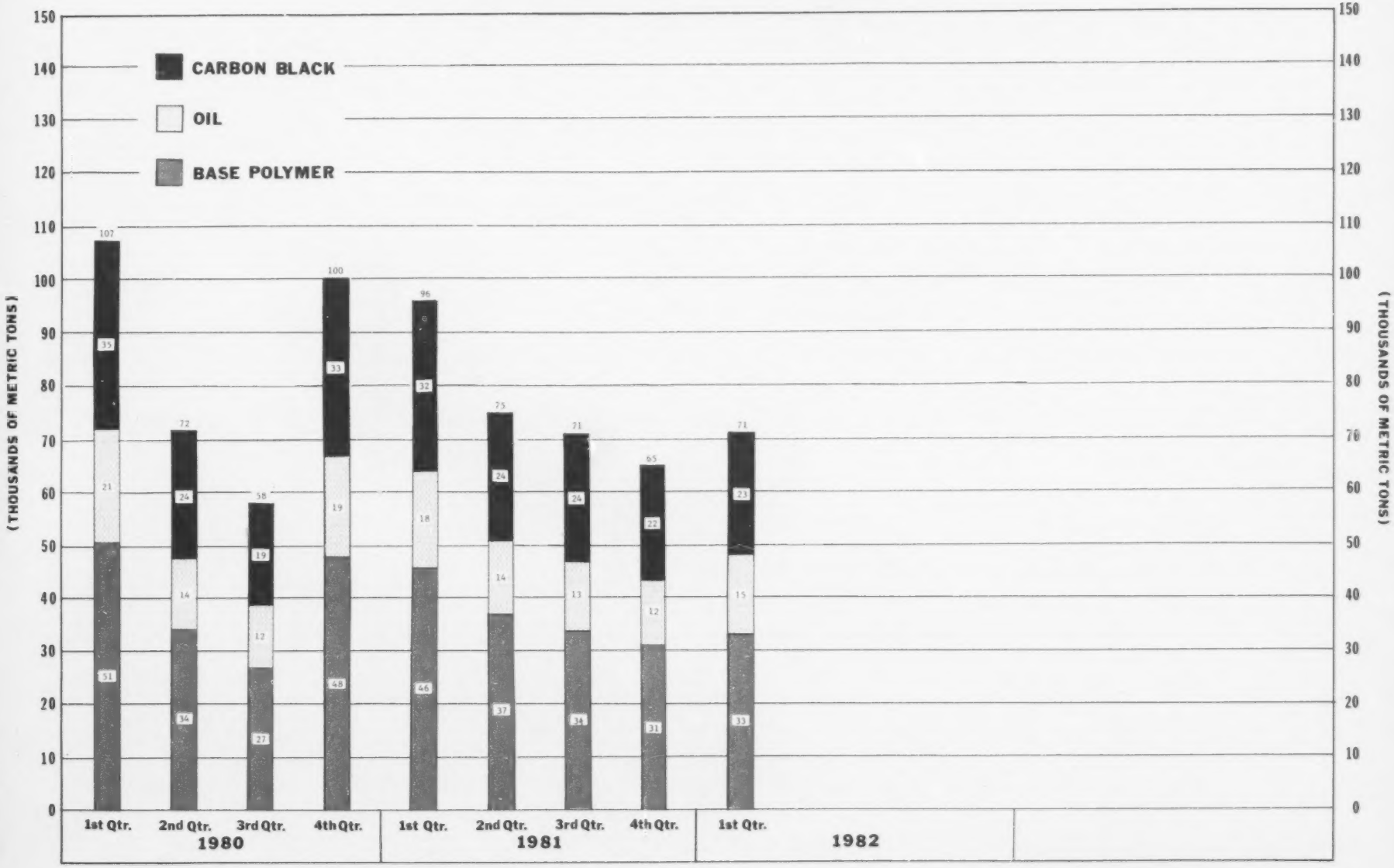
SBR BLACK RUBBER PRODUCTION



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Columbian Chemicals Company

October 20, 1982

Attached are charts and tables concerning consumption of carbon black and dry rubber hydrocarbons during the second quarter and the first half of 1982.

CARBON BLACK
(Excluding Thermal)

Second quarter carbon black production decreased 6% from the preceding quarter and 16% from the same quarter of 1981 to 263 thousand metric tons.

First half production of 543 MMT was the lowest semi-annual output in seven years, decreasing 16% from the 1981 period.

Shipments in the second quarter amounted to 257 MMT, off 10% from both the first quarter and the year ago period. All grades declined, ranging from 1% in N-300 to over 23% in N-100, N-200 and N-700.

First half shipments declined 13% from 1981 to 541 MMT, the lowest semi-annual period since the second half of 1970. N-500 and N-700 had their lowest half-year in nineteen and thirty-two years respectively.

Inventory at the plants increased 7% during the quarter to 106 MMT, a supply of 1.2 months, varying from 1.1 months in N-300, N-500 and N-600 to 2.6 months in N-100.

U.S.A. DRY RUBBER HYDROCARBONS
(Excluding Reclaim)

U.S.A. dry rubber hydrocarbons totaled 519 thousand metric tons in the second quarter, off 6% from the preceding quarter and 13% from the second quarter of 1981.

3200 West Market Street Box 5373 Akron, Ohio 44313 (216) 867-5800

First half consumption decreased 12% from the first and 6% from the second half of 1981 to 1,072 MMT, the lowest semi-annual period since the 1,046 MMT in the second half of 1967. All polymers were down:

	vs. 1st Half '81	vs. 2nd Half '81
Natural	6%	1%
Polybutadiene	11%	10%
SBR	12%	5%
EPDM	14%	8%
Polychloroprene	17%	12%
Polyisoprene	21%	8%
Nitrile	22%	14%
Butyl	29%	23%

The first half synthetic ratio reverted from 75.1% a year ago to 73.3% and the carbon-rubber ratio, from 49.8 phr to 49.1 parts per hundred rubber.

Although SBR black rubber production increased 6% from the second quarter of 1981 to 79 MMT, the first half output of 150 MMT was down 12%, consisting of a 21% decrease in carbon black, 10% in net polymer and 1% in oil. The net rubber into black rubber increased its share of dry SBR from 22.3% a year ago to 25.2% in the first half.

Very truly yours,

Edward I. Bosworth

Edward I. Bosworth
Manager, Marketing

EIB/bjo

I. CARBON BLACK INDUSTRY IN THE U.S.A.

(Metric Tons)

			1982		Percentage Change	
			2nd Qtr.	1st Half	2nd Qtr. '82 vs. 2nd Qtr. '81	1st Half '82 vs. 1st Half '81
N-100	(SAF)	Prod.	4,904	9,162	(24.5%)	(15.3%)
		Ship.	4,081	8,365	(23.2%)	(20.3%)
N-200	(ISAF)	Prod.	26,023	55,275	(27.4%)	(22.7%)
		Ship.	24,777	55,168	(24.0%)	(20.3%)
N-300	(HAF)	Prod.	117,127	235,273	(7.3%)	(11.5%)
		Ship.	113,347	234,646	(1.4%)	(8.8%)
N-500	(FEF)	Prod.	24,247	53,485	(29.3%)	(24.0%)
		Ship.	26,215	55,224	(17.9%)	(19.3%)
N-600	(GPF)	Prod.	69,595	141,870	(7.1%)	(10.2%)
		Ship.	63,326	136,499	(8.0%)	(10.1%)
N-700	(SAF)	Prod.	21,443	47,796	(42.4%)	(31.4%)
		Ship.	24,798	51,299	(23.4%)	(22.2%)
Total		Prod.	263,339	542,861	(16.2%)	(16.0%)
		Ship.	256,544	541,201	(10.3%)	(13.2%)
Domestic Shipments (Included Above)			249,697	525,892	(9.0%)	(11.6%)
Domestic Share			94.8%	96.9%		

II. SBR BLACK RUBBER PRODUCTION

(Metric Tons)

	1982		Percentage Change	
	2nd Qtr.	1st Half	2nd Qtr. '82 vs. 2nd Qtr. '81	1st Half '82 vs. 1st Half '81
Net Polymer	41,058	74,015	+13.1%	(10.4%)
Oil	16,756	31,392	+23.8%	(0.8%)
Oil % of Net Polymer	40.8%	42.4%		
Net Rubber	57,814	105,407	+16.0%	(7.8%)
Net Rubber % of Dry SBR	29.2%	25.2%		
Carbon Black	21,158	44,313	(14.1%)	(20.9%)
Total SBR Black Rubber	78,972	149,720	+6.0%	(12.1%)

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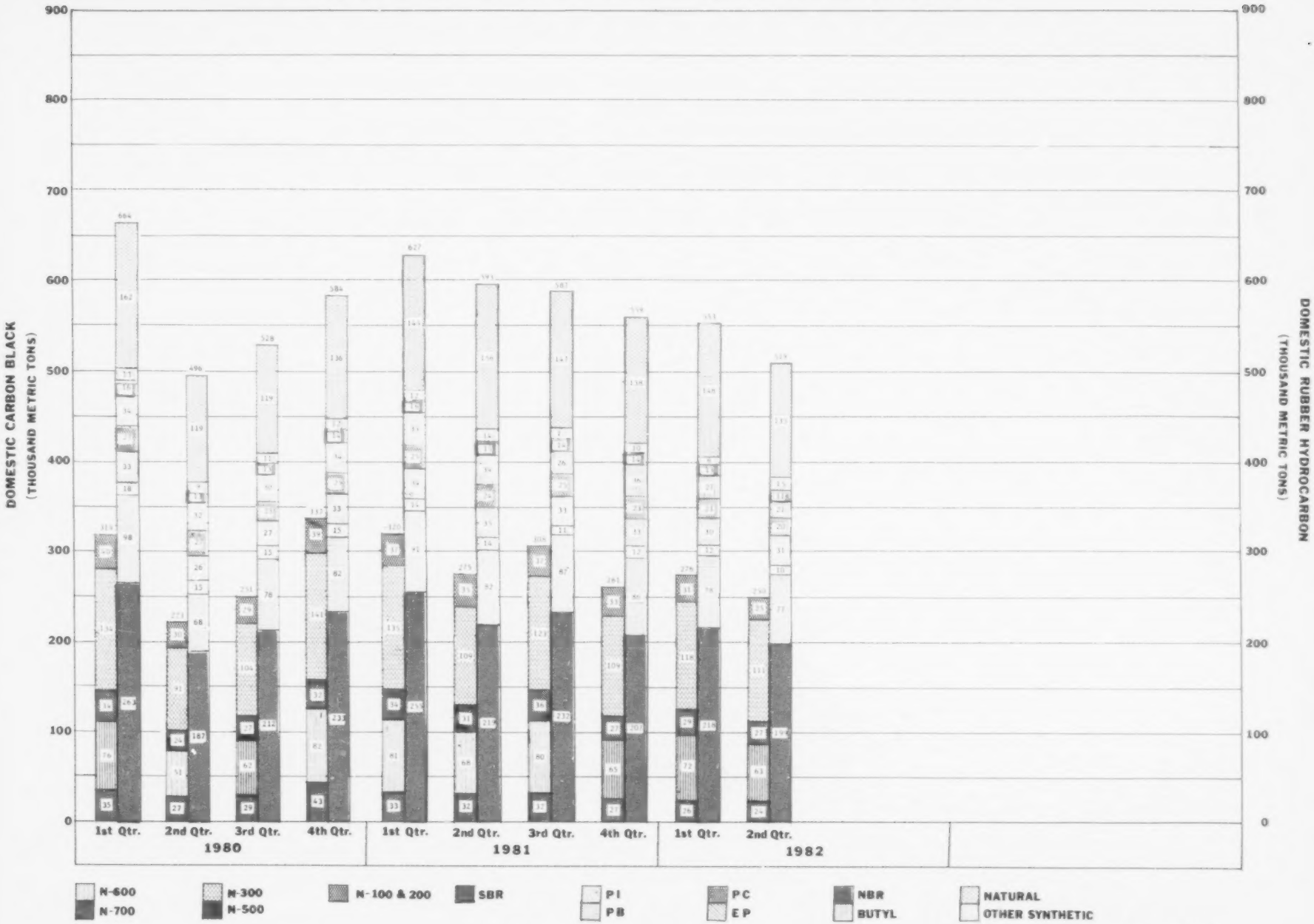
U.S.A. DRY RUBBER HYDROCARBON & CARBON BLACK CONSUMPTION



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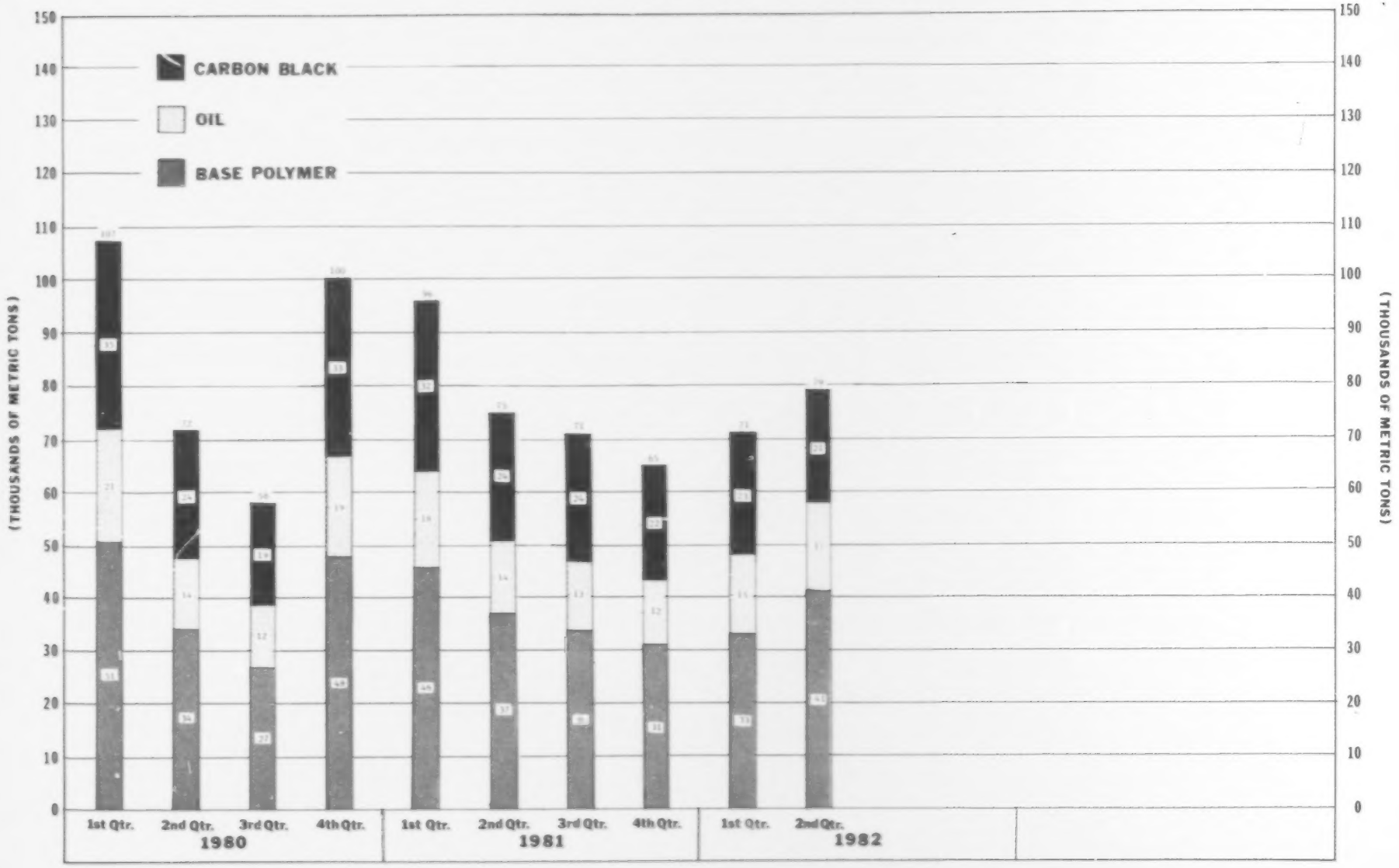
SBR BLACK RUBBER PRODUCTION



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